

## **Curriculum Vitae Wolfgang Peti, Ph.D.**

Wolfgang Peti, Ph.D.  
Professor of Medical Science  
Professor of Chemistry  
Director Structural Biology Core Facility  
ADA Pathway Fellow  
Department of Molecular Pharmacology, Physiology and Biotechnology  
Department of Chemistry  
Brown University  
<http://brown.edu/research/labs/peti>  
<https://vivo.brown.edu/display/wpeti>

Affiliated Professor for NMR-based Structural Biology & Biology  
University of Copenhagen  
Denmark

## **Education**

1992 – 1998      Diploma Magister rer. nat, Chemistry, *summa cum laude*, University of Vienna, Austria  
1/1997 – 12/1997: Diploma thesis  
Laboratory of Dr.Dr. B.K. Keppler, Department of Chemistry, University of Vienna, Austria: Synthesis, Characterization and Investigation of the Hydrolysis of Tumor Inhibiting Ruthenium Complexes  
4/1998 – 9/2001      Ph.D., Chemistry, *summa cum laude*, J.-W.-G. University Frankfurt, Germany  
Laboratory of Dr. C. Griesinger, Department of Chemistry, J.-W.-G. University Frankfurt, Germany: New Methods for the Elucidation of NMR Projection Restraints: Structure and Dynamic of Native and Denatured Proteins

## **Professional Appointments**

10/2001 – 8/2004      Research Associate, The Scripps Research Institute, USA  
Laboratory of Dr. K. Wüthrich, Department of Molecular Biology, The Scripps Research Institute: Structural Proteomics using NMR Spectroscopy; Novel NMR Screening Techniques; Structure Determination of Proteomic Target Proteins  
9/2004 – 6/2010      Assistant Professor of Medical Science, MPPB, Brown University, USA  
7/2006 – 8/2010      MPP Graduate Program Director, Brown University, USA  
7/2007 – 6/2010      Manning Assistant Professor, MPPB, Brown University, USA  
7/2008 – 6/2010      Assistant Professor of Chemistry, Brown University, USA  
7/2010 – 6/2015      Associate Professor (tenure) of Medical Science, Brown University, USA

7/2010 – 6/2015	Associate Professor (tenure) of Chemistry, Brown University, USA
7/2012 – present	Director Structural Biology Core Facility, Brown University, USA
11/2014 – present	Affiliated Professor of Biology, University of Copenhagen, Denmark
7/2015 – present	Professor (tenure) of Medical Science, Brown University, USA
7/2015 – present	Professor (tenure) of Chemistry, Brown University, USA

### Academic honors

2014 – present	Pathway to Stop Diabetes American Diabetes Association Fellow
2013 – 2017	Editorial Member: Journal of Biological Chemistry
2007 – 2010	Manning Assistant Professor of Medical Science
2005	Rhode Island Foundation Medical Research Grant
2005	Richard B. Salomon Faculty Research Award
2004	Max-Kade Foundation Fellowship Award
2002	Ernst Award 2002 of the German Chemical Society
2002 – 2004	Erwin-Schrödinger-Stipend (FWF/Austria)
2001	European Union Research Training Network "Cross-Correlation" Young Investigator HPRN-CT-2000-00092
1998 – 2001	Member of the University Sponsor group of the Bayer AG
1998 – 2001	Kekulé thesis scholarship from the scholarship fund of the association of the chemical industry in Germany
1996 – 1998	Performance scholarship of the ministry for science and culture in Austria

### Membership in Societies

1998 – 2005	GDCh member
2004 – Present	ACS member
2006 – Present	ASPET member
2007 – Present	Protein Society member
2010 – Present	ASBMB member
2013 – Present	American Crystallographic Association member
2014 – Present	American Diabetes Association member

### Invited Lectures (conference presentation are underlined)

1. Society of German Chemist-Meeting:  
Magnetic Resonance Spectroscopy Würzburg/Germany, 2.October 1999.  
Measurement of Magnitude and Sign of H,H Dipolar Couplings.
2. ENC2000 (Experimental NMR Conference 2000):  
Asilomar, California USA, 14. April 2000.  
Adiabatic TOCSY Transfer in H,H and C,C Coupling Systems.
3. Society of German Chemist-Meeting:  
Magnetic Resonance Spectroscopy Regensburg/Germany, 27.September 2000.

Angular Projection Restraints useful for Structure Determination of Biomolecules.

4. EU-Large Scale Facility-Meeting:  
Noordwijkerhout/The Netherlands (NL), 7.October 2000.  
Projection Restraints in Biomolecular Structure Determination.
5. NMR in Molecular Biology (European Science Foundation):  
Karrebæksminde/Denmark, DK 11.June 2001.  
Model free analysis of dynamics derived from dipolar couplings applied to the Ubiquitin Backbone.
6. Society of German Chemist-Meeting:  
Magnetic Resonance Spectroscopy Bremen/Germany, 24.September 2002.  
NMR for Structural Genomics with the *Thermotoga maritima* proteome.
7. Research Training Network "Cross-Correlation" Mid-Term Review Meeting:  
Paris, France, 15.November 2002.  
Model free analysis of dynamics derived from dipolar couplings.
8. Keystone Symposia: Frontiers of NMR in Molecular Biology VIII  
Taos, New Mexico, USA, 07. February 2003.  
NMR for Structural Proteomics: The *Thermotoga maritima* Proteome.
9. Brown University, MCB Department Series  
Providence, RI, 26.October.2004  
Miniaturization of Biomolecular NMR
10. Boston University  
Boston, MA, 16. November 2004  
Biological Micro-Coil NMR
11. Harvard Medical School  
Boston, MA, 7. Jan. 2005  
High-Throughput NMR Spectroscopy
12. Brown University, Engineering Department Series  
Providence, RI, 26.October.2004  
New Tools for Structure Determination using High-Resolution NMR Spectroscopy
13. Yale Medical School  
New Haven, CT, 18. April 2006  
Using Biomolecular NMR Spectroscopy to Elucidate Structure and Function of Neuronal Signaling Proteins
14. Brandeis University  
Waltham, MA, 25. April 2006

Using Biomolecular NMR Spectroscopy to Elucidate Structure and Function of Neuronal Signaling Proteins

15. University of Rhode Island  
Kingstown, RI, 13. October 2006  
Biological Micro-Coil NMR and its application for biomolecular NMR spectroscopy
16. Wesleyan University  
Middletown, CT, 10. November 2006  
My Unstructured Brain
17. Brown University – Neuroscience Graduate Seminar Series  
Providence, RI, 8. March 2007  
My Unstructured Brain
18. Harvard Medical School  
Boston, MA, 17. July, 2007  
Protein Phosphatase 1 Regulation
19. NE Regional IDeA Meeting  
Burlington, VT, 16. August 2007  
Protein Phosphatase 1 Regulation
20. 800 MHz NMR Facility Inauguration Symposium and 2<sup>nd</sup> Annual Meeting of the Millennium Institute for Structural Biology in Biomedicine and Biotechnology  
Universidade Federal de Rio de Janeiro, Rio de Janeiro, Brazil, 9/3/2007  
The Role of Transient Structure and Flexibility for Protein Phosphatase 1 Regulation
21. IBM  
Yorktown Heights, NY, 9/17/2007  
Flexibility is the Key for Protein Function
22. University of Toronto  
Toronto, Canada, 11/15/2007 – Protein Folding Seminar Series  
The Role of Transient Structure and Flexibility for Protein Phosphatase 1 Regulation
23. University of Illinois at Chicago  
Chicago, Illinois, 11/19/2007  
The Role of Transient Structure and Flexibility for Protein Phosphatase 1 Regulation
24. Brown University, Department of Chemistry  
Providence, RI, 03/07/2008

The Role of Transient Structure and Flexibility for Protein Phosphatase 1 Regulation

25. Rhode Island Research Alliance Symposium  
Providence, RI, 7/3/2008  
Protein Phosphatase 1 Regulation
26. 10<sup>th</sup> Biennial FASEB Summer Research Conference on Protein Phosphatases  
Snowmass Village, CO, 7/14/2008  
The 1.8 Å Structure of the Spinophilin:PP1 Complex
27. New York Structural Biology Discussion Group  
Cold Spring Harbor Laboratories, NY, 8/6/2008  
Regulation of Protein Phosphatase 1
28. University of California Irvine, Department of Pharmaceutical Sciences  
Irvine, Ca, 08/28/2008  
Regulation of Protein Phosphatase 1
29. Brandeis University, Department of Chemistry  
Waltham, MA, 10/24/2008  
Structural Basis of Protein Phosphatase 1 Regulation
30. Brown University Medical School, Women & Infants Research Colloquium  
Providence, RI, 11/14/2008  
Structural Basis of Protein Phosphatase 1 Regulation
31. University of Texas Health Science Center San Antonio, Department of Biochemistry Seminar Series  
San Antonio, TX, 2/19/2009  
Structural Basis of Protein Phosphatase 1 Regulation
32. University of Southern California, Zilkha Neurogenetic Institute's Seminar Series  
Los Angeles, CA, 3/18/2009  
Structural Basis of Protein Phosphatase 1 Regulation
33. Kansas University, Interdisciplinary Bioinformatics Seminar Series  
Lawrence, KA, 3/24/2009  
Structural Basis of Protein Phosphatase 1 Regulation
34. Vanderbilt University, Institute of Chemical Biology  
Nashville, TN, 4/29/2009  
Structural Basis of Protein Phosphatase 1 Regulation
35. Yale University, Department of Pharmacology  
New Haven, CT, 5/07/2009

Structural Basis of Protein Phosphatase 1 Regulation

36. University of Vienna, Department of Chemistry  
Vienna, Austria, 10/20/2009  
Structural Basis of Protein Phosphatase 1 Regulation
37. KU Leuven, Departement Moleculaire Celbiologie  
Leuven, Belgium, 10/21/2009  
Structural Basis of Protein Phosphatase 1 Regulation
38. University of Utah, Department of Chemistry  
Salt Lake City, UT, 1/14/2010  
Structural Basis of Protein Phosphatase 1 Regulation
39. Texas A&M, Artie McFerrin Department of Chemical Engineering  
2010 Lindsay Lecture  
College Station, TX, 3/03/2010  
Structural Analysis of Dephosphorylation Machines: The Prerequisite of Flexibility
40. University of Connecticut, Department of Molecular and Cell Biology  
Storrs, CT, 3/16/2010  
Structural Basis of Protein Phosphatase 1 Regulation
41. CECAM (Centre Europeen de Calcul Atomique et Moleculaire) Workshop  
"Protein Folding Dynamics: Bridging the Gap between Theory and Experiment"  
Lausanne, Switzerland, Oct. 4-7, 2010  
Invited Expert on Intrinsically Unstructured Proteins/Session-Chair  
Folding upon Binding – An Ensemble View
42. The 12<sup>th</sup> Upstate NY NMR Symposium  
SUNY, Albany, 11/29/2010  
Finally Understood: Regulation of Protein Phosphatase 1
43. Keystone Symposium: Frontiers of NMR Biology  
Big Sky, Montana, Jan 8-13, 2011  
NMR Studies of Large Intracellular Signaling Complexes
44. 2<sup>nd</sup> Annual User Meeting EAST-NMR and the 1<sup>st</sup> Annual User Meeting of Bio-NMR projects of the 7<sup>th</sup> EU FP  
Brno, Czech Republic, Jan 24 - 27, 2011  
Structural Basis of Enzyme Specificity
45. 3<sup>rd</sup> Europhosphatase Meeting  
Baden, Austria, Jul 18-23, 2011  
Structural Basis of Protein Phosphatase 1 Regulation

46. Leibniz Universität Hannover  
Hannover, Germany, 10/28/2011  
Structural Basis of Protein Phosphatase 1 Regulation
47. University of Connecticut, Health Science Center  
Hartford, CT, 11/10/2011  
Structural Basis of Protein Phosphatase 1 Regulation
48. National Institute of Health, NIDDK Seminar Series  
Bethesda, MD, 11/17/2011  
Structural Basis of MAP Kinase Regulation
49. New York Structural Biology Discussion Group  
The New York Academy of Science, NY, 1/25/2012  
Structural Basis of MAP Kinase Regulation
50. Brookhaven National Laboratory, National Synchrotron Light Source  
Upton, NY, 3/2/2012  
Structural Basis of MAP Kinase Regulation
51. Intrinsically Disordered Proteins, Biochemical Society, UK  
York, UK, March 26-27, 2012  
Regulation of protein phosphatase 1 by intrinsically disordered proteins
52. Symposium on Biomolecular Structure, Dynamics and Function  
St. Jude Children's Research Hospital, Memphis, TN, April 27-29, 2012  
Structural Basis of MAP Kinase Regulation
53. Medical University of South Carolina  
Charleston, SC, May 10, 2012  
Structure, dynamics and function of large protein signaling complexes
54. 12<sup>th</sup> Biennial FASEB Summer Research Conference on Protein Phosphatases  
Snowmass Village, CO, July 15-20, 2012  
Using Structure to define the Function and Selectivity of Phosphatases
55. Karolinska Institutet  
Stockholm, Sweden, August 17, 2012  
Structural Biology of Protein Phosphatases and MAP Kinases
56. New England Structural Biology Association – Bio-SAXS meeting  
Bentley University, September 10, 2012  
Combining X-Ray crystallography, NMR spectroscopy and small angle X-ray scattering to understand MAP Kinase signaling
57. University of Copenhagen

- Copenhagen, Denmark, October 22, 2012  
Integrative Structural Biology to unravel signaling in pro- and eukaryotes
58. Leibniz Institute of Molecular Pharmacology (FMP Berlin)  
Berlin, Germany, October 26, 2012  
Combining X-Ray crystallography, NMR spectroscopy and small angle X-ray scattering to understand MAP Kinase signaling
59. University of Hamburg  
Hamburg, Germany, October 29, 2012  
Integrative Structural Biology to unravel signaling in pro- and eukaryotes
60. 2012 Eastern Analytical Symposium – Biological NMR  
Somerset, NJ, November 15, 2012  
Structure, dynamics and function of large protein signaling complexes
61. GlaxoSmithKline Research Discussion  
GSK, Collegeville, PA, November 16, 2012  
Improving Structural Biology in the Pharmaceutical Industry
62. GRASP (Groupe de Recherche Axé sur la Structure des Protéines) Structural Biology symposium  
McGill University, Montreal, Canada, November 19, 2012  
Structural Basis of MAP Kinase Regulation
63. Boston University  
Boston, MA, November 27, 2012  
Structure, dynamics and function of large protein signaling complexes
64. Pediatric Research Colloquium, Woman & Infants Hospital  
Providence, RI, February 22, 2013  
How does FK-506 work?
65. Pharmacology Seminar, University of Rhode Island  
Kingstown, RI, June 20, 2013  
How do FK-506 and Cyclosporin A function?
66. 4<sup>th</sup> Europhosphatase Meeting  
Rehovot, Israel, Jul 7-12, 2013  
Structural Basis of Protein Phosphatase 1 Regulation
67. American Crystallization Association Meeting 2013  
Honolulu, Hawaii, July 20 -24, 2013  
Ser/Thr Protein Phosphatase 1 Regulation
68. University of Madison-Wisconsin; McArdle Seminar in Cancer Biology 2013-2014



Madison, WI, October 2, 2013  
Ser/Thr Phosphatase Regulation for Cancer Research

69. Toronto Cancer Center, Princess Margaret Cancer Centre Seminar Series  
Toronto, Canada, January 23, 2014  
PTPs and PSPs in Cancer Research
70. University of Maryland, Department of Chemistry  
College Park, MD, February 10, 2014  
Structure and Dynamics of Protein Phosphatases
71. University of Bayreuth, Department of Chemistry  
Bayreuth, Germany, February 19, 2014  
Structure and Dynamics of Signaling Enzymes
72. ENC 2014 (Experimental NMR Conference 2014):  
Boston, Massachusetts USA, March 25, 2014  
Novel Insights into the Structure and Dynamics of Signaling Enzymes
73. 74<sup>th</sup> The American Diabetes Association's Scientific Session  
San Francisco, Ca, June 13-17, 2014  
Pathway Meeting – Novel Routes to Modulate PTP1B Activity
74. 13<sup>th</sup> Biennial FASEB Summer Research Conference on Protein Phosphatases  
Nassau, Bahamas, July 20-25, 2014  
Using Structure to define the Function and Selectivity of Phosphatases
75. Functional Protein Dynamics; PhD course  
([http://www1.bio.ku.dk/english/research/pv/sbin\\_lab/pss/summer-school-2014/](http://www1.bio.ku.dk/english/research/pv/sbin_lab/pss/summer-school-2014/))  
University of Copenhagen, Denmark, August 18<sup>th</sup>- 22<sup>nd</sup>, 2014  
How does flexibility influence protein function?
76. Stanford University, Department of Biology  
Stanford, Ca, October 22, 2014  
The dynamic regulation of Tyrosine Phosphatases - novel routes for specific inhibitors
77. DUKE-NUS  
Singapore, Singapore, November 10, 2014  
Phosphatases are highly Specific Enzymes
78. 11<sup>th</sup> International Conference on Protein Phosphatases  
Sendai, Japan, November 12-14, 2014  
The dynamic regulation of Tyrosine Phosphatases
79. Vlaams Instituut voor Biotechnologie (VIB)

- Brussels, Belgium, December 10, 2014  
The dynamic regulation of Tyrosine Phosphatases
80. Institute de Biologie Structurale (IBS)  
Grenoble, France, December 11, 2014  
The dynamic regulation of Tyrosine Phosphatases
81. Albert Einstein Medical School, Department of Biochemistry  
NYC, March 25, 2015  
Using Structure and Motions to define the Function and Selectivity  
of Phosphatases
82. 5<sup>th</sup> Europhosphatase Meeting  
Turku, Finland, June 24-29, 2015 (Presenter and Session Chair)  
Novel Means to Switch the Activity of Phosphatases
83. CECAM: Intrinsically Disordered Proteins - Bringing together Physics,  
Computation and Biology  
ETHZ, Zurich, Switzerland, August 18-21, 2015  
Turning IDPs into drug targets – structure based drug design for IDPs?
84. SCIX – Scientific Exchange (Federation of Analytical Chemistry and Spectroscopy  
Societies Meeting)  
Providence, RI, Sept 27- Oct 2, 2015  
Using NMR spectroscopy to gain novel insights for diabetes drug design
85. University of Rhode Island, Department of Physics/Biophysics  
Kingston, RI, October 2, 2015  
Turning Intrinsically Disordered Proteins into Drug Targets – How is that Possible?
86. North East Structure Symposium (NESS) – Structure and Dynamics of Intrinsically  
Unfolded Proteins  
Storrs, CT, Oct 10, 2015  
The Role of Intrinsically Disordered Proteins in the Regulation of Phosphatases
87. Medical University of Debrecen, Department of Pharmacology and Medicine  
Debrecen, Hungary, November 6, 2015  
Phosphatases and Cell Cycle regulation: The Role of PP1
88. Linderstrøm-Lang Centre Symposium  
University of Copenhagen, Denmark, November 9-10, 2015  
Phosphatases and Cell Cycle regulation: The Role of PP1
89. New York University; Perlmutter Cancer Center Seminar Series 2015-2016  
NYC, NY, Nov 18, 2015  
The Role of Intrinsically Disordered Proteins in the Regulation of Phosphatases

90. University of Arizona, Department of Biochemistry  
Tucson, AZ, January 29, 2015  
The Role of Intrinsically Disordered Proteins in the Regulation of Phosphatases
91. 2016 Gordon Research Conference (GRC) on “Intrinsically Disordered Proteins (IDPs)”  
Les Diablerets, Switzerland, June 26-July 1, 2016  
The Role of Intrinsically Disordered Proteins in the Regulation of Phosphatases
92. 14<sup>th</sup> Biennial FASEB Summer Research Conference on Protein Phosphatases  
July, 2016 (Presenter and Session Chair)  
Using Structure to define the Function and Selectivity of Phosphatases
93. Keystone Symposium: Frontiers of NMR Biology  
Keystone, Colorado, March 12-17, 2017  
Using NMR spectroscopy to understand signaling

### Public Data Distribution

*Public Database submissions since 2007 (~50 structures determined – 50% X-ray/50% NMR spectroscopy)*

Protein Data Base (PDB): 2FN5, 2G5M, 2GLE, 2OXL, 3EGG, 3EGH, 3E7A, 3HVQ, 3E7B, 3FMY, 2KM6, 3GN5, 3HI2, 2L6A, 2I9K, 3O9X, 3GA8, 3HI2, 3D42, 3D44, 2QDC, 2HVL, 4F0Z, 4EWI, 3V4Y, 2LPE, 2LLZ, 2M3V, 2M83, 4MOV, 4MOY, 4MP0, 4P9F, 4PCV, 4PHL, 4XPN, 4Y14

Biological Magnetic Resonance Bank (BMRB): 6927, 6933, 7118, 15176, 15179, 15452, 15865, 16160, 16263, 17009, 17045, 17471, 18448, 18198, 18228, 18086, 17724, 17725, 18977, 19223, 19224, 19225, 19330, 19451, 25430, 25375

### Service to the University

University:

Committees:

2005 – present	LMM organizational committee (Member)
2009	Search committee for Associate Dean for Research (Member)
2009	Faculty Search committee for CGP Structural Biology (Member)
2011 – present	Advisory Committee for the NSF/EPSCoR Proteomics Core Facility (Chair)
2009/2012	Faculty Search Committee for Proteomics (Member)
2011 – present	Office of Sponsored Projects – Advisory Committee (Member)
2011/2012	Faculty Search Committee for Structural Biology (Member)
2015/2016	University wide Tenure and Promotions Committee (Member)

Fund-raising:

Brown Annual Fund Leadership Reception on 3/6/2013 in New York City

University Commitments:

2013 Catalyst student advising

PhD Thesis Committee:

Brown University: Nathan Mao (MPP), Advisor: D. Mierke  
Aubrey Frank (MCB), Advisor: M. Johnson  
Susan Disalvo (MCB), Advisor: T. Serio  
Yiyuan Ding (Chemistry), Advisor: A. Salomon  
Amalia Avila Figueroa (MPP), Advisor: S. Delaney  
Lulu Cao (Chemistry), Advisor: A. Salomon  
Jennifer Davis (MPP), Advisor: J. Sello (Chair)  
Zhuo Chen (Chemistry), Advisor: A. Salomon  
Qinqin Ji (Chemistry), Advisor: A. Salomon  
Alexander Conicella (MCB), Advisor: N. Fawzi

University of Pennsylvania: Veronica R. Moorman (Biochemistry and Molecular Biophysics) 7/8/2012, Advisor: Dr. A. Joshua Wand; outside reader

Institut de Biologie Structurale / IBS (Grenoble, France): Jaka Kragelj, 12/11/2014, Advisor: Dr. Martin Blackledge, outside reader

Yale University: Nicholas Sawyer (Molecular Biophysics & Biochemistry) 12/18/2015, Advisor: Dr. Lynne Regan; outside reader

Master Thesis Committee:

Brown University: Eugene Wan (Engineering), Advisor: A. Tripathi

## Service to the Profession

### Profession

3/2005	ZRG1 F04B 20 Ad Hoc study section member
3/2008	NSF (Division of Chemistry) proposal reviewer
9/2008	NSF (Division of Chemistry) proposal reviewer
10/2008	University of Leuven, Belgium, Europe – Expert on Phosphatase Research reviewer
2/2009	Cariplo Foundation Reviewer (Italy, Europe)
9/2009	NSF (Division of Chemical Measurement and Imaging) proposal Reviewer
4/2011 – 4/2013	NSF (Division of Molecular and Cellular Biosciences), Biomolecular Systems, Molecular Biochemistry, Panel Member

2/2011 – present Member of the NSLS Facility Proposal Review Panel - Structural Biology in Solution – Brookhaven National Laboratories (2<sup>nd</sup> term)  
 2011 Wellcome Trust (UK)  
 2012 The North Carolina Biotechnology Center; Biotechnology Research Grant Program  
 2012 British Heart Foundation  
 8/2012 NSF (MCB) proposal reviewer  
 10/2012 NIH/MIST (Molecular and Integrative Signal Transduction) study section ad hoc member  
 12/2012 – present Member of the ALS Facility Proposal Review Panel - Structural Biology Proposal Study Panel (PSP) for MX and biological SAXS – Lawrence Berkeley National Laboratories  
 3/2013 NSF (MCB) proposal reviewer  
 10/2013 NSF (Chemistry of Life Processes program in the Chemistry Division) proposal reviewer  
 2/2014 NIH/MIST (Molecular and Integrative Signal Transduction) study section ad hoc member  
 3/2014 Kentucky Science and Engineering Foundation reviewer  
 7/2014 ZRG1 BCMB-H (40) P; Site visit NIH review member  
 2012 – present SSRL Facility Proposal Review Panel - Structural Biology Proposal Study Panel (PSP) for biological SAXS  
 2014 FWF (Austrian Science Fund) reviewer  
 10/2014 NIH/MSFB (Macromolecular Structure and Function B) study section ad hoc member  
 3/2015 NSF ad hoc reviewer  
 1/2015-12/2017 Permanent Member of the American Diabetes Association's Research Grant Review Committee  
 6/2015 NIH/MIST (Molecular and Integrative Signal Transduction) study section ad hoc member  
 2/2016 NIH/MIST (Molecular and Integrative Signal Transduction) study section ad hoc member  
 4/2016 NSF (Division of Molecular and Cellular Biosciences), Biomolecular Systems, Molecular Biochemistry, Panel Member  
 7/2016 – 6/2021 Permanent Member NIH/MIST (Molecular and Integrative Signal Transduction) study section

### Conference Organizer

4/29-5/1/2016 Sailing the Protein Seas in the Ocean State - Protein Structure, Dynamics and Function – Conference Organizer  
<http://brown.edu/conference/sailing-the-protein-seas/>

### Journal – Editorial Positions

2010 – Present: Contributing Member of “Faculty of 1000”  
 2011 – Present: Editorial Board Scientifica

2013 – Present: Editorial Member: Journal of Biological Chemistry

Reviewer for: Nature Structural Biology, Nature Chemical Biology, Nature Methods, PNAS, Journal of Magnetic Resonance, Journal of Biomolecular NMR, Magnetic Resonance in Chemistry, Biochemistry, Journal of American Chemical Society, Journal of Biological Chemistry, Journal of Analytical Chemistry, Structure, Journal of Molecular Biology, FEBS Journal, FEBS Letters, among others

### **Consultant**

2005-2006 Biogen Idec

### **Fundraising**

2014 – Present: American Diabetes Association

### **Teaching – Educational Outreach**

2004 – Present: Trainer, Graduate Program in Molecular Pharmacology and Physiology

2004 – Present: Trainer, Graduate Program in Chemistry

2005 – Present: Trainer, Graduate Program in Molecular Biology, Cell Biology and Biochemistry

2013 – Present: Trainer, Biomedical Engineering

6/2006 – 8/2010 Director, Graduate Program in Molecular Pharmacology and Physiology

### **Outreach**

2014 Meeting with Rhode Island Congressman Langevin and Senator Whitehouse to enhance biomedical funding in the US

### **Laboratory Members**

#### Current Members of the Peti Laboratory

- Senior Research Associate: Dr. Meng Shyan Choy (11/2011 – present; PhD National University of Singapore)
- Postdoctoral Research Associate: Dr. Sarah Sheftic (5/2014 – present; PhD Advisor Dr. Andrei Alexandrescu; University of Connecticut, Storrs, CT)
- Postdoctoral Research Associate: Dr. Luciana Elena DeSouza Fraga Machado (7/2014 – present; PhD Advisor Dr. Fabio Almeida; Universidade Federal do Rio de Janeiro, Brazil)
- Postdoctoral Research Associate: Dr. Yang Li (9/2015 – present; PhD Advisor Dr. Teresa Lehmann; University of Wyoming, Wyoming; Postdoctoral Advisor: Dr. Mirko Hennig; Medical University of South Carolina, Charleston, SC)

- Postdoctoral Research Associate: Dr. Thomas Moon (1/2016 – present; PhD Advisor Dr. Elizabeth Goldsmith; UT Southwest, Dallas, TX; Postdoctoral Advisor: Dr. Wolfgang Dostmann; University of Vermont, Burlington, VT)
- Assistant Professor (Research): Dr. Senthil Kumar Ganesan (9/2012 – present; PhD Advisor: Prof. Siddhartha P. Sarma, Indian Institute of Science; Postdoctoral Advisor: Prof. Ishwar Radhakrishnan, Northwestern University)
- Assistant Professor (Research): Dr. Michael (Sparky) Clarkson (7/2012 – present; PhD Advisor: Prof. Andrew Lee, University of North Carolina; Postdoctoral Advisor: Prof. Dorothy Kern, Brandeis University): Structural Biology Core Facility Manager
- Master Student: Christopher Lee (9/2015 – present; University of Michigan, BS)
- Undergraduate Student: Xingyu Wei (Chemistry Concentrator) (**2015 UTRA Fellow**; Sponsor: Peti, W.)
- Undergraduate Student: Brian Cho (Biophysics Concentrator)

## Alumni

### Visiting Faculty:

- Research Faculty (visiting): Professor Dr. Andrei Alexandrescu; University of Connecticut (9/2014 – 2/2015): Sabbatical
- Research Associate (visiting) Ms. Anne Kaplan; University of Connecticut (9/2014 – 2/2015).

### Postdoctoral Researchers:

- Postdoctoral Research Associate: Dr. Christopher R. Connors (9/2013 – 9/2015); PhD Advisor Dr. Chunyu Wang; Rensselaer Polytechnic Institute (RPI), Troy, NY.
- Senior Research Associate: Dr. Sivakumar Gajjeraman (8/2013 – 8/2015); PhD Anna University, India.
- Postdoctoral Research Associate: Dr. Clarissa Eibl (11/2012 – 5/2013; PhD University of Salzburg, Austria); Current Position: Postdoctoral Research Associate; FMP, Berlin.
- Postdoctoral Research Associate: Dr. Nichole O’Connell (4/2010 – 5/2012; PhD Advisor: Dr. Art Palmer 3<sup>rd</sup>, Columbia University); Current Position: Senior Research Scientist; AstraZeneca (Waltham, USA).
- Postdoctoral Research Associate: Dr. Heiko Zettl (3/2011 – 3/2012; PhD Advisor: Dr. Manfred Schubert-Zsilavecz, University of Frankfurt; Postdoctoral Advisor: Dr. Gisbert Schneider, ETH Zürich); Supported by **Feodor Lynen Research Fellowship for Postdoctoral Researchers Alexander von Humboldt Foundation**; Current Position: Medical Writer (Boehringer Ingelheim).
- Dr. Martina Hieke (4/2011 – 3/2012; PhD Advisor: Dr. Manfred Schubert-Zsilavecz, University of Frankfurt); Current Position: Manager Regulatory Affairs (Ratiopharm GmbH).

- Dr. Ayse Uzgoren Baran (8/2009 – 7/2011; PhD, Hacettepe University, Turkey); Current Position: Associate Professor, Hacettepe University, Turkey.
- Dr. Thusitha D. Jayasundera (9/2010 – 8/2011; PhD Advisor: Dr. J. Patrick Loria, Yale University); Current Position: NMR Center, Assistant Director, Boston College, Boston, MA.
- Dr. Anderson Pinheiro (10/2007 – 8/2010; PhD Advisor: Dr. Fabio Almeida, Universidade Federal do Rio de Janeiro, Brazil); Current Position: Assistant Professor (with tenure) faculty at Universidade Federal do Rio de Janeiro.
- Dr. Matthew S. Kelker: Postdoctoral Research Associate: (6/2005 – 12/2008; PhD Advisor: Dr. Ian Wilson, The Scripps Research Institute; **NIH F32NS054493 (2006-2008)**, Sponsor: Peti, W.); 2009 – 2015: Protein Expression Group R&D Leader Dow Agriculture (Indianapolis, IN); 2015 – present: Chief Scientific Officer, Xylogenics.
- Dr. Tingting Ju: Postdoctoral Research Associate: (1/2006 – 7/2007; PhD Advisor: Dr. Tom Pochapsky, Brandeis University); Current Position: Senior Scientist, OriGene Technologies (Rockville, MD).

#### Graduate Students:

- Dr. Simina Grigoriu (2007 – 2013; MCB student, **5T32GM007601 fellow for 2008**) Graduation May 2013 (Outside reader Dr. Jonathan A. Ellman (Yale University)); 7/2013 – 6/2015: Postdoctoral Research Associate Dr. Gerhard Wagner (Harvard); 6/2015 – present: Astra Zeneca.
- Ms. Judy Meissner (2010-2012; Chemistry student; Master Degree); Graduation May 2012; 1/2013 – 6/2014: Xtal Biosciences; 7/2014 – present: Sr. Research Associate, Joule Unlimited.
- Dr. Michael J. Ragusa (2005-2010; MCB student, **5T32GM007601-2 fellow for 2006/2007; NSF EPSCoR graduate fellow 2007/2008; Brain Science Summer 2009 Graduate Research Award - Robert M. Kaplan and Susan Adler Kaplan Fund**); Graduation August 2010 (Outside reader Dr. Dagmar Ringe (Brandeis University)); 11/1/2010-7/2014: Postdoctoral Research Associate Dr. James Hurley (NIH); 8/2014 – present: Assistant Professor (tenure-track), Department of Chemistry, Dartmouth University.
- Ms. Diana Lizarazo (2008-2010; MPP student, **Pharmacia Graduate Research Fellowship 2008/2009; 5R25GM083270 IMSD Fellow 2009/2010**)
- Dr. Barbara L. Dancheck (2005-2010; MPP student, **Pharmacia Graduate Research Fellowship 2005/2006; NSF graduate fellowship 2006-2009**); Graduation September 2009 (Outside reader J. Patrick Loria (Yale University)); Senior Research Assistant from 9/15/09-8/4/10; AAAS Science and Technology Policy Fellow: Food Security Coordinator at the U.S. Agency for International Development in the Bureau of Democracy, Conflict and Humanitarian Assistance in the Office of Programs, Policy and Management. Currently: Program and Policy Coordination Officer, US Agency for International Development; 2014 in charge of the US response to Ebola.

#### Research Assistants:



- Research Assistant: Mag. Manuel Hessenberger (11/2012 – 5/2013; MS University of Salzburg, Austria); Graduate Student Max Delbruck Laboratories, Germany
- Research Assistant: Daniel Miller: 9/2011 – 7/2012; Graduate Student MIT
- Research Assistant: Zeynep Ekmen-Vural: 11/2009 – 5/2010
- Research Assistant: Scott Nichols: 8/2008 – 5/2010; Graduate Student John Hopkins University
- Research Assistant: Jeanne-Marie Palermino: 5/2007 – 9/2007; Tufts University Veterinary Medical School Student
- Research Assistant: Mary Parquette: 1/2005 – 6/2005; Arque Pharmaceuticals
- Research Assistant: Jebecka Hudak: 11/2004 – 6/2006; LCT Biopharmal; Incytu Inc.

#### Rotation Graduate Students

- David A. Critton: MCB Rotation Student
- Courtney Frederick: MPP Rotation Student
- Cynthia Park: MPP Rotation Student
- Edward Packman: MCB Rotation Student
- Graham Poage: MPP Rotation Student
- Catherine B. Volle: MCB Rotation Student
- Kyle Newman: MPP Rotation Student
- Xinru Wang: MCB Rotation Student
- Alejandro Scaffa: MPP Rotation Student

#### Undergraduate Students

- Antoinette Oot: Undergraduate Student (**2012 UTRA Fellow**; Sponsor: Peti, W.); Currently: Research Assistant University of Washington, Seattle
- Kristofer R. Gonzalez-Dewhitt: Undergraduate Student; Currently Eli-Lilly, Indianapolis, IN.
- Judy He: Undergraduate Student; currently in Medical School
- Rene Kessler: Undergraduate Student (**UTRA Fellow 2006**; Sponsor: Peti, W.); Obama Campaign Organizer Ohio; Currently John Hopkins University, Biophysics Graduate Program
- Andrew Davenport: Undergraduate Student (**UTRA Fellow 2007**; Sponsor: Peti, W.); 2008-2010: Research Assistant Bloebel Laboratory, Rockefeller University; 9/2010: Graduate Student Caltech
- Andrew Perry: Undergraduate Student (**NSF/EPSCoR Fellow**; Sponsor: Peti, W.); 2008/2009: Full-time scientist Structural Immunobiology Unit in NIAID (Allergy and Infectious Disease), NIH (PI: Tsan Xiao); 2009-present: Medical School University of Florida.
- Benjamin Stein (**NSF/EPSCoR Fellow**; Sponsor: Peti, W.); 9/2010 – graduate student MIT.
- Undergraduate Student: Vincent Pham
- Undergraduate Student: Jarred Maybe

- Undergraduate Student: Michael Lorinsky; 2014-present: Medical School University of Connecticut
- Undergraduate Student: Greyson R. Lewis (with Rebecca Page)

**Peer-Reviewed Publication List****Chapters in books**

1. Griesinger, C., Meiler, J. & **Peti, W.** (2003). Protein NMR for the Millennium. In *Biological Magnetic Resonance* (Krishna, N. R. & Berliner, L. J., eds.), Vol. 20, pp. 163-229. Kluwer Academic / Plenum Press, New York.
2. Griesinger, C., **Peti, W.**, Meiler, J. & Brüschweiler, R. (2004). Projection angle restraints for studying structure and dynamics of biomolecules. *Methods Mol Biol* 278, 107-122.
3. Hopson, R. & **Peti, W.** (2008) Micro-Coil NMR Spectroscopy – a novel tool for biological high-throughput NMR spectroscopy. *Methods Mol Biol* 429, 447-458.

**Refereed journal articles**

1. **Peti, W.**, Pieper, T., Sommer, M., Keppler, B. K. & Giester, G. (1999). Synthesis of Tumor-Inhibiting Complex Salts Containing the Anion trans-Tetrachlorobis(indazole)ruthenate(III) and Crystal Structure of the Tetraphenylphosphonium Salt. *Eur. J. Inorg. Chem.* 1999, 1551-1555.
2. Carlomagno, T., **Peti, W.** & Griesinger, C. (2000). A new method for the simultaneous measurement of magnitude and sign of  $^1D_{CH}$  and  $^1D_{HH}$  dipolar couplings in methylene groups. *J Biomol NMR* 17, 99-109.
3. Meiler, J., **Peti, W.** & Griesinger, C. (2000). DipoCoup: A versatile program for 3D-structure homology comparison based on residual dipolar couplings and pseudocontact shifts. *J Biomol NMR* 17, 283-94.
4. **Peti, W.** & Griesinger, C. (2000). Measurement of Magnitude and Sign of H,H-Dipolar Couplings in Proteins. *J. Am. Chem. Soc.* 122, 3975-3976.
5. **Peti, W.**, Hennig, M., Smith, L. J. & Schwalbe, H. (2000). NMR Spectroscopic Investigation of  $\gamma$  Torsion Angle Distribution in Unfolded Ubiquitin from Analysis of  $^3J(C_{\alpha},C_{\alpha})$  Coupling Constants and Cross-Correlated  $G_{H^N,C_{\alpha}H_{\alpha}}$  Relaxation Rates. *J. Am. Chem. Soc.* 122, 12017-12018.
6. **Peti, W.**, Griesinger, C. & Bermel, W. (2000). Adiabatic TOCSY for C,C and H,H J-transfer. *J Biomol NMR* 18, 199-205.
7. Pieper, T., **Peti, W.** & Keppler, B. K. (2000). Solvolysis of the Tumor-Inhibiting Ru(III)-Complex trans-Tetrachlorobis(indazole)ruthenate(III). *Metal Based Drugs* 7, 225-232.
8. Kramer, F., **Peti, W.**, Griesinger, C. & Glaser, S. J. (2001). Optimized Homonuclear Carr-Purcell-Type Dipolar Mixing Sequences. *J. Magn. Reson.* 149, 58-66.
9. Meiler, J., Prompers, J. J., **Peti, W.**, Griesinger, C. & Brüschweiler, R. (2001). Model-free approach to the dynamic interpretation of residual dipolar couplings in globular proteins. *J Am Chem Soc* 123, 6098-107.
10. Neubauer, H., Meiler, J., **Peti, W.** & Griesinger, C. (2001). NMR Structure Determination of Saccharose and Raffinose by Means of Homo- and Heteronuclear Dipolar Couplings. *Helv. Chim. Acta* 84, 243-258.
11. Parac, T. N., Coligaev, B., Zientz, E., Unden, G., **Peti, W.** & Griesinger, C. (2001). Assignment of  $^1H$ ,  $^{13}C$  and  $^{15}N$  resonances to the sensory domain of the

- membraneous two-component fumarate sensor (histidine protein kinase) DcuS of *Escherichia coli*. *J Biomol NMR* 19, 91-2.
12. **Peti, W.**, Smith, L. J., Redfield, C. & Schwalbe, H. (2001). Chemical shifts in denatured proteins: resonance assignments for denatured ubiquitin and comparisons with other denatured proteins. *J Biomol NMR* 19, 153-65.
  13. **Peti, W.**, Meiler, J., Bruschiweiler, R. & Griesinger, C. (2002). Model-free analysis of protein backbone motion from residual dipolar couplings. *J Am Chem Soc* 124, 5822-33.
  14. Woschek, A., Wuggenig, F., **Peti, W.** & Hammerschmidt, F. (2002). On the transformation of (S)-2-hydroxypropylphosphonic acid into fosfomycin in *Streptomyces fradiae*--a unique method of epoxide ring formation. *Chembiochem* 3, 829-35.
  15. Etezady-Esfarjani, T., **Peti, W.** & Wüthrich, K. (2003). Letter to the Editor: NMR assignment of the conserved hypothetical protein TM1290 of *Thermotoga maritima*. *J Biomol NMR* 25, 167-8.
  16. Hus, J. C., **Peti, W.**, Griesinger, C. & Brüschiweiler, R. (2003). Self-consistency analysis of dipolar couplings in multiple alignments of ubiquitin. *J Am Chem Soc* 125, 5596-7.
  17. Meiler, J., **Peti, W.** & Griesinger, C. (2003). Dipolar couplings in multiple alignments suggest alpha helical motion in ubiquitin. *J Am Chem Soc* 125, 8072-8073.
  18. Pappalardo, L., Janausch, I. G., Vijayan, V., Zientz, E., Junker, J., **Peti, W.**, Zweckstetter, M., Uden, G. & Griesinger, C. (2003). The NMR Structure of the Sensory Domain of the Membranous Two-component Fumarate Sensor (Histidine Protein Kinase) DcuS of *Escherichia coli*. *J. Biol. Chem.* 278, 39185-39188.
  19. Almeida, M. S., **Peti, W.** & Wüthrich, K. (2004). 1H-, 13C- and 15N-NMR assignment of the conserved hypothetical protein TM0487 from *Thermotoga maritima*. *J Biomol NMR* 29, 453-4.
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  21. Kelker, M. S., Foss, T. R., **Peti, W.**, Teyton, L., Kelly, J. W., Wüthrich, K. & Wilson, I. A. (2004). Crystal Structure of Human Triggering Receptor Expressed on Myeloid Cells 1 (TREM-1) at 1.47Å. *J Mol Biol* 342, 1237-48.
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  23. **Peti, W.**, Norcross, J., Eldridge, G. & O'Neil-Johnson, M. (2004). Biomolecular NMR using a microcoil NMR probe--new technique for the chemical shift assignment of aromatic side chains in proteins. *J Am Chem Soc* 126, 5873-8.
  24. Almeida, M. S., Herrmann, T., **Peti, W.**, Wilson, I. A. & Wüthrich, K. (2005). NMR structure of the conserved hypothetical protein TM0487 from *Thermotoga maritima*: Implications for 216 homologous DUF59 proteins. *Protein Sci* 14, 2880-2886.

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26. Columbus, L., **Peti, W.**, Etezady-Esfarjani, T., Herrmann, T. & Wüthrich, K. (2005). NMR structure determination of the conserved hypothetical protein TM1816 from *Thermotoga maritima*. *Proteins* 60, 552-557.
27. Page, R., **Peti, W.**, Wilson, I. A., Stevens, R. C. & Wüthrich, K. (2005). NMR screening and crystal quality of bacterially expressed prokaryotic and eukaryotic proteins in a structural genomics pipeline. *Proc Natl Acad Sci U S A* 102, 1901-5.
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29. **Peti, W.**, Johnson, M. A., Herrmann, T., Neuman, B. W., Buchmeier, M. J., Nelson, M., Joseph, J., Page, R., Stevens, R. C., Kuhn, P. & Wüthrich, K. (2005). Structural Genomics of the Severe Acute Respiratory Syndrome Coronavirus: Nuclear Magnetic Resonance Structure of the Protein nsP7. *J Virol* 79, 12905-13.
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31. Baker, K. A., Hilty, C., **Peti, W.**, Prince, A., Pfaffinger, P. J., Wider, G., Wüthrich, K. & Choe, S. (2006). NMR-Derived Dynamic Aspects of N-Type Inactivation of a Kv Channel Suggest a Transient Interaction with the T1 Domain. *Biochemistry* 45, 1663-1672.
32. Herzberg, M., Kaye, I. K., **Peti, W.** & Wood, T. K. (2006). YdgG (TqsA) Controls Biofilm Formation in *Escherichia coli* K-12 through Autoinducer 2 Transport. *J Bacteriol* 188, 587-98.
33. Johnson, M. A., **Peti, W.**, Herrmann, T., Wilson, I. A. & Wüthrich, K. (2006). Solution structure of Asl1650, an acyl carrier protein from *Anabaena* sp. PCC 7120 with a variant phosphopantetheinylation-site sequence. *Protein Sci* 15, 1030-41.
34. Kelker, M. S. & **Peti, W.** (2006). NMR Assignment of the Spinophilin PDZ Domain (493-602). *J Biomol NMR* 35, 24.
35. **Peti, W.** & Page, R. (2007). Strategies to Maximize Heterologous Protein Expression in *E. coli* with Minimal Cost. *Prot Exp Purif* 57, 1-10.
36. Wirmer, J., **Peti, W.** & Schwalbe, H. (2006). Motional properties of unfolded ubiquitin: a model for a random coil protein. *J Biomol NMR*, 35 (3), 175-186.
37. Kelker, M. S., Dancheck, B., Ju, T., Kessler, R., Nairn, A. C. & **Peti, W.** (2007). Structural basis for Spinophilin and Neurabin receptor interaction. *Biochemistry*, 46, 2333-2344.

38. Ju, T., Ragusa, M. J., Hudak, J., Nairn, A. C. & **Peti, W.** (2007). Structural characterization of the neurabin SAM domain. *Proteins*, *69*(1), 192-198.
39. Placzek W.J., Etezady-Esfarjani T., Herrmann T., Pedrini B., **Peti W.**, Alimenti C., Luporini P. & Wüthrich K. (2007) Cold-adapted signal proteins: NMR structures of pheromones from the antarctic ciliate *Euplotes nobilii*. *IUBMB Life*, *59*(8), 578-585.
40. Lee, J, Page, R., García-Contreras, R., Palermino, J.M., Zhang, X.S., Doshi, O., Wood, T.K. & **Peti, W.** (2007) Structure and Function of the E. coli Protein YmgB: a Protein Critical for Biofilm Formation and Acid Resistance, *J Mol Biol*, *373*(1), 11-26.
41. Ju, T. & **Peti, W.** (2007) Backbone and side chain <sup>1</sup>H, <sup>15</sup>N and <sup>13</sup>C assignments of the human G-actin binding protein profilin II, *Biomol. NMR Assign.*, *1*, 205-207.
42. Schüler, H. & **Peti, W.** (2008). Structure-Function Analysis of the F-actin Binding Domain of the Neuronal Scaffolding Protein Spinophilin, *FEBS J.*, *275*, 59-68.
43. Dancheck, B., Nairn, A.C. & **Peti, W.** (2008) Detailed Structural Characterization of Unbound Protein Phosphatase 1 Inhibitors, *Biochemistry*, *47*, 12346–12356.
44. Critton, D.A., Tortajada, A., Stetson, G., **Peti, W.** & Page, R. (2008) Structural basis of substrate recognition by Hematopoietic Tyrosine Phosphatase (HePTP), *Biochemistry*, *47*, 13336-13345.
45. Kelker, M.S., Page, R. & **Peti, W.** (2009) Crystal Structures of Protein Phosphatase-1 Bound to Nodularin-R and Tautomycin: A Novel Scaffold for Structure Based Drug Design of Serine/Threonine Phosphatase Inhibitors, *J Mol Biol*, *385*, 11-21.
46. Pinheiro de Sa, A., Ehart, A., Ebner, N., Proell, M., Schwarzenbacher, R. & **Peti, W.** (2009) Backbone and side chain <sup>1</sup>H, <sup>15</sup>N and <sup>13</sup>C assignments of the NLRP7 pyrin domain, *Biomol. NMR Assign.*, *3*, 207-209.
47. Brown, B.L., Grigoriu, S., Kim, Y., Arruda, J., Davenport, A., Wood, T.K., **Peti, W.** & Page R. (2009) Three Dimensional Structure of the MqsR:MqsA Complex: a Novel TA Pair comprised of a Toxin Homologous to RelE and an Antitoxin with Unique Properties, *PLoS Pathog* *5*(12): e1000706.
48. Kim, Y., Wang, X., Zhang, X-S., Grigoriu, S., Page, R., **Peti, W.** & Wood, T.K. (2010) Escherichia coli Toxin/Antitoxin Pair MqsR/MqsA Regulate Toxin CspD, *Environ Microbiol*, *12*(5), 1105-1121.
49. Ragusa, M.J., Dancheck, B., Critton, D.A., Nairn, A.C., Page, R. & **Peti, W.** (2010) Spinophilin directs Protein Phosphatase 1 specificity by steric inhibition of substrate binding sites, *Nat Struct Mol Biol*, *17*(4), 459-464.
49. Bollen, M., **Peti, W.**, Ragusa, M., Beullens, M. (2010) The toolkit of PP1: designed to create specificity, *Trends in Biochemical Sciences*, *35*, 450-458.
50. Pinheiro AS, Proell M, Eibl C, Page R, Schwarzenbacher, R & **Peti W.** (2010) The 3-dimensional structure of the NLRP7 pyrin domain - insight into pyrin:pyrin mediated effector domain signaling in innate immunity. *J Biol Chem*, *285*(35), 27402-27410.
51. Marsh, J.A., Dancheck, B., Ragusa, M.J., Allaire, M., Forman-Kay, J.D. & **Peti, W.** (2010) Structural diversity in free and bound states of intrinsically disordered protein phosphatase 1 regulators, *Structure*, *18* (9), 1094–1103. (Comment by Uversky VN. (2010) Seven Lessons from One IDP Structural Analysis, *Structure*, *18* (9), 1069-1071.)

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54. Brown, B.L., Wood, T.K., **Peti, W.** & Page R. (2011) Structure of the *E. coli* Antitoxin MqsA bound to its Gene Promotor reveals extensive Rearrangements and the Specificity of Transcriptional Regulation, *J Biol Chem*, 286 (3), 2285-2296.
55. Ragusa, M.J., Allaire, M., Nairn, A.C., Page, R. & **Peti, W.** (2011) Flexibility in the PP1:spinophilin holoenzyme, *FEBS Letters*, 585(1), 36-40.
56. Pinheiro, A.S., Marsh, J.A., Forman-Kay, J.D. & **Peti, W.** (2011) The Structural Signature of the MYPT1:PP1 Interaction, *J Am Chem Soc*, 133(1), 73-80.
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63. Koveal, D., Jayasundera, T.B., Wood, T.K., Page, R. & **Peti, W.** (2013) Backbone and sidechain  $^1\text{H}$ ,  $^{15}\text{N}$  and  $^{13}\text{C}$  assignments of Tyrosine Phosphatase related to Biofilm formation A (TpbA) of *Pseudomonas aeruginosa*, *Biomol NMR Assign*, 7(1), 57-59.
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65. Wang, X., Lord, D.M., Cheng, H.-Y., Osbourn, D.O., Hong, S.H., Sanchez-Torres, V., Quiroga, C., Herrmann, T., **Peti, W.**, Benedik, M.J., Page, R. & Wood, T.K. (2012) A new type V toxin-antitoxin system where mRNA for toxin GhoT is cleaved by antitoxin GhoS, *Nat Chem Biol*, 8, 855-861. (Comment by van Melderen, L. (2012) GhoSTly bacterial persists, *Nat Chem Biol*, 8(6), 812-813.)
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68. Piserchio, A., Francis, D.M., Koveal, D., Dalby, K.N., Page, R., **Peti, W.** & Ghose, R. (2012) Docking Interactions of Hematopoietic Tyrosine Phosphatase (HePTP) with the MAP Kinases ERK2 and p38 $\alpha$ , *Biochemistry*, 51(41), 8047-8049.
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87. **Peti, W.** Clarkson, M.W. & Page, R. (2015) Signaling Enzymes: Structure and Dynamics in Solution, *eMagRes*, 4, 543-550.
88. **Peti, W.** & Page, R. (2015) Perspective: Strategies to make protein serine/threonine (PP1, calcineurin) and tyrosine phosphatases (PTP1B) druggable: Achieving specificity by targeting substrate and regulatory protein interaction sites. *Bioorganic & Medicinal Chemistry*, 23 (12), 2781-2785.
89. Page, R. & **Peti, W.** (2015) NMR spectroscopy to study MAP kinase binding to MAP kinase phosphatases. *Methods Mol Biol*, in press (invited).
90. Choy, M.S., Yusoff, P., Lee, I.C., Newton, J.C., Goh, C.W., Page, R., Shenolikar, S. & **Peti, W.** (2015) Structural and functional analysis of the GADD34:PP1 eIF2 $\alpha$  phosphatase, *Cell Reports*, 11, 1885-1891.
91. Krishnan, N., Krishnan, K., Connors, C.R., Choy, M.S., Page, R., **Peti, W.**, van Aelst, L., Shea, S.D., & Tonks, N.T. (2015) Targeting BDNF signaling through inhibition of PTP1B suggests a novel therapeutic strategy for treatment of Rett syndrome, *Journal of Clinical Investigation*, 125(8), 3163-3177.

### Publications under review

1. Page, R. & **Peti W.** (2015) Ribonuclease toxins in type II toxin-antitoxin systems, *Nature Chemical Biology*, positive first review; resubmitted.

### Publications with submission within next 45-90 days (all data collected):

1. Kumar, G.S., Wand, AJ, Page, R. & **Peti, W.** (2015) An allosteric mechanism leads to activation of the MAP Kinase p38, *in preparation*.
2. Choy, M.S., Page, R. & **Peti, W.** (2015) Regulation of PP1 by GM – essential new insights into glycogen metabolism, *in preparation*.
3. Li, Yang, Choy, M.S., Machado, L., Page, R. & **Peti, W.** (2015) A dynamic view of PTP1B.

### **Patent Applications**

1. U.S. provisional application 62/038,511  
Title: Methods and compounds for treatment of PTP1B-related diseases  
Inventors: **Peti, W.**, Page, R.
2. Re: U.S. provisional application 62/033,766  
Title: Methods and compounds for treating calcineurin related diseases  
Inventors: **Peti, W.** & Page, R.

**Funding**Current Research Funding

- 1-14-ACN-31 (PI: **Peti, W.**) 01/01/14-12/31/18  
 American Diabetes Foundation – Pathway to Stop Diabetes Program  
 Established Investigator New to Diabetes Research \$1,625,000 (DC+IC, 6.0 months)  
*Pathways to a Cure: Novel, Innovative Insights into Insulin Signaling and Regulation using NMR Spectroscopy*
- 1R01GM100910 (MPI: **Peti, W.**; Wand, A.J.) 02/01/13-01/31/17  
 NIH – NIGMS \$577,542 (DC+IC, 1.0 month)  
*Dynamics & energetics of p38 $\alpha$  kinase regulation by ligands*
- 1R01NS091336 (MPI: **Peti, W.**; Page, R.) 02/01/15-01/31/20  
 NIH - NIGMS \$1,772,992 (DC+IC, 1.5 months)  
*Serine/Threonine Phosphatases in Neurological Diseases*
- 1R01GM098482 (PI: Page, R.; Co-PI: **Peti, W.**) 09/01/11-08/31/21  
 NIH – NIGMS \$854,360 (DC+IC, 2.0 month)  
*PP1 regulation in the nucleus*
- 1R01AR066003 (PI: Bennett, A.; Collaborator: **Peti, W.**) 03/01/15-02/28/18  
 NIH - NIAMS \$134,729 (DC+IC, 0.2 months)  
*MKP5 in Dystrophic Muscle Disease*
- Brazil Collaborative Research Fund (PI: **Peti, W.**) 12/01/13-06/31/16  
 Brown University \$247,671 (DC, 0.0 month)  
*NMR Based Structural Biology with Colleagues at UFRJ*
- Merck (MPI: **Peti, W.**; Page, R.) 03/01/15-03/30/16  
 Merck \$160,000 (DC+IC, 1.0 month)  
*Novel Routes for the Production of recombinant Proteins*
- Merck (MPI: **Peti, W.**; Page, R.) 03/01/15-07/30/15  
 Merck \$10,000 (DC+IC, 0.02 month)  
*SAXS for Biologics*
- Core Infrastructure Award (PI: **Peti, W.**) 04/01/14-05/31/15  
 Brown University \$175,200 (DC, 0.0 month)  
*TCI HCN z-gradient replacement cryoprobe to be operated on the existing 11.7 T – 500 MHz <sup>1</sup>H Larmor frequency – NMR spectrometer*
- 1T32-HL094300-05 (PI: Koren, G.; Trainer: **Peti, W.**) 09/01/08-08/31/15  
 NIH - NHLBI  
*Brown CardioPulmonary Research Training Program*

1T32-GM077995-05 (PI: Hawrot, E.; Trainer: **Peti, W.**) 07/01/10-06/30/15  
 NIH – NIGMS  
*Predoctoral Training Program in Trans-Disciplinary Pharmacological Sciences*

5T32-GM007601 (PI: Mowry, K.; Trainer: **Peti, W.**) 07/01/15-06/30/20  
 NIH – NIGMS  
*Training in Molecular and Cell Biology and Biochemistry*

*Funding at the University of Copenhagen – Affiliated Professor*

R151-2013-14302 (PI: **Peti, W.**) 01/01/15-12/31/17  
 Lundbeck Foundation \$468,000 (3 Mio DKK)  
 Calcineurin and the Regulation of Down syndrome

Velux Grant (PI: Karsten Kristiansen; Co-PI: **Peti, W.**) 01/01/15-12/31/17  
 Villum Foundation \$1,870,000 (12 Mio DKK)  
 Fundamental Processes Underlying the Biophysical Behavior of Proteins; Funding for a  
 600 MHz NMR spectrometer and upgrades to a 750 and 800 MHz NMR spectrometer

Declined: Hallas-Møller Grant (PI: **Peti, W.**) 01/01/15-12/31/20  
 Novo Nordisk Foundation \$1,530,000 (10 Mio DKK)  
 Novel Routes for Diabetes Research

*Pending Research Funding*

1R01DK106613-01 (MPI: **Peti, W.**; Tatar, M.) 07/01/16 – 06/31/21  
 NIH - NIDDK Peti only: \$1,351,466 (DC+IC, 1.0 months)  
*Analysis of insulin receptor tyrosine kinase from dynamics to function*  
 28%tile – resubmission planned for 7/2016

R01AI045626-15 (PI: Rice, L; Collaborator: **Peti, W.**) 07/01/16- 06/30/21  
 NIH – NIAID Peti only: \$995,781 (DC+IC, 1.0 months)  
*Cell wall synthesis enzymes and beta-lactam resistance in Enterococcus faecium*

*Recently Completed Research Funding*

Merck (MPI: **Peti, W.**; Page, R.) 05/01/14-1/31/15  
 Merck \$70,000 (DC+IC, 1.0 month)  
*Novel Routes for the Production of recombinant Proteins*

Brown University Seed Funds (PI: **Peti, W.**) 04/01/13-06/30/14  
 Brown University \$50,000 (DC, 0.0 months)  
*Phosphatase Inhibitor Design – A unique possibility for Brown University*

Highly Automated Biomolecular Solution Scattering (PI: Yang, L.; Promoter: **Peti, W.**)

*NSLS-II Beamline Development Proposal Type I*

Brookhaven National Laboratory, NY, USA

Approved for construction

1S10OD012331 (PI: Allaire, M.; Contributor: **Peti, W.**) 07/15/12-07/14/13

NIH – OD

\$1,057,550 (DC, 0.0 months)

*A simultaneous SAXS/WAXS detector system for solving biological structures*

State University New York Stony Brook

3R01-NS056128 (PI: **Peti, W.**)

10/01/07-06/30/13

NIH - NINDS

\$1,634,221 (DC+IC, 3.0 months)

*Structural and Functional Analysis of Signaling Proteins in Dendritic Spines*1R21-DA022326 (PI: **Peti, W.**; Co-PI: Bowen, W.)

04/01/08-03/31/11

NIH - NIDA

\$437,250 (DC+IC, 2.0 months)

*Structural and Functional Analysis of the Sigma-1 Receptor*

The major goal is to determine a 3-dimensional model of the sigma-1 receptor and to understand the function of its subunits, especially the ligand interaction sites.

Schering-Plough (PI: Page, R.; Co-PI: **Peti, W.**)

07/01/08-12/31/11

Schering-Plough

\$350,000 (DC+IC, 0.0 months)

*Expression of Proteins important for Drug Screening*3R01-NS056128-02S1 (PI: **Peti, W.**)

09/01/09-11/31/10

NIH - NINDS

\$56,449 (DC, 0.0 months)

*Structural and Functional Analysis of Signaling Proteins in Dendritic Spines*

ARRA supplement for the purchase of a centrifuge

7R01-EB003872 (PI: Wood, T.; Sub-Project: **Peti, W.**)

10/01/05-4/30/10

NIH - NIBIB

\$144,083 (DC+IC, 0.66 months)

*Plant Biofilm Inhibitors to Discover Biofilm Genes*Seed Fund (PI: **Peti, W.**)

06/01/08-07/31/10

Brown University

\$5,000 (DC, 0.0 months)

Center of Computational Molecular Biology, Brown University

STAC (RI Research Alliance) (PI: **Peti, W.**)

01/01/08-12/31/08

STAC

\$230,000 (DC, 0.0 months)

*Procurement of a high-throughput micro-calorimeter (Auto-iTC200)*1F32-NS054493 (PI: Kelker, M.; Mentor: **Peti, W.**)

08/01/06-07/31/08

NIH - NINDS (NSRA)

\$95,622 (DC+IC, 0.0 months)

*NMR analysis of the PP1 and spinophilin interaction*1P20-RR016457 (PI: Shaikh, Z., Investigator: **Peti, W.**)

05/01/07-04/30/08

NIH - NCRR

\$100,000 (DC+IC, 6.4 months)

*The Effect of Molecular Toxins on Protein Phosphatase 1 Targeting*

STAC (RI Research Alliance) (PI: Hawrot, E.; Collaborator: **Peti, W.**) 01/01/07-12/31/07  
 STAC \$150,000 (DC, 0.0 months)

*Acquisition of an Electro-Spray Injected Tandem Mass Spectrometer as a Critical Component of the RI Center for Proteomics*

1S10-RR020923 (PI: Mierke, D., Participant: **Peti, W.**) 06/01/06-05/31/07  
 NIH - NCRR \$105,000 (DC, 0.0 months)

*Acquisition of a CD Spectrophotometer*

EMBO Short Term Collaboration Grant (PI's: Schüler, H.; Max-Delbrück-Center, Berlin, Germany; **Peti, W.**; Brown University) 08/01/06-12/31/06

European Molecular Biology Organization \$1,650 (DC, 0.0 months)

*Interaction of Spinophilin with F-actin*

BiogenIdec (PI: **Peti, W.**) 04/01/05-06/30/06  
 BiogenIdec \$65,000 (DC, 0.0 months)

*Biomolecular NMR of Drug Targets*

Research Seed Fund Award (PI: Page, R., Co-PI: **Peti, W.**) 02/01/06-12/31/06  
 Brown University \$60,000 (DC, 0.0 months)

Structural Biology and Function of Macromolecular Complexes: Purchase of a Dynamic Light Scattering Instrument.

Richard B. Salomon Faculty Res. Award (PI: **Peti, W.**) 01/01/05-12/31/05  
 Brown University \$29,810 (DC, 0.0 months)

*A Multi-technique Approach to Understand the Specificity of Protein Phosphatase-1*

Medical Research Grant (PI: **Peti, W.**) 01/01/05-12/31/05  
 Rhode Island Foundation \$10,000 (DC, 0.0 months)

*The Structural and Dynamical Protein Phosphates 1 Interaction Map*